

The description of the present invention has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the invention in the form disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art. The embodiment was chosen and described in order to best explain the principles of the invention, the practical application, and to enable others of ordinary skill in the art to understand the invention for various embodiments with various modifications as are suited to the particular use contemplated.

We claim:

1. A tool assembly comprising a cylindrical hole saw having an annular cutting surface and at least one rebate blade, said rebate blade positioned adjacent to the exterior sidewall of said hole saw and said rebate blade having a cutting surface in a plane approximately parallel with the cutting surface of said hole saw and said rebate blade located a predetermined distance below said cutting surface of said cylindrical hole saw.

2. The tool recited in claim 1 further comprising a flange member, said flange member located on said hole saw on an end opposite said cutting surface and said flange member having a diameter larger than the diameter of said hole saw, wherein when said flange member engages the surface of a by said hole saw, further axial movement is prevented.

3. The tool assembly recited in claim 2 wherein said rebate blade is attached to said flange member.

4. The tool assembly as recited in claim 3 wherein said flange member receives a plurality of rebate blades.

5. The tool assembly as recited in claim 4 wherein said rebate blades are positioned at angular positioned around said flange.

6. The tool assembly as recited in claim 1 further comprising a pilot drill bit, wherein said drill bit is received in a sleeve in the center of said cylindrical hole saw.

7. The tool assembly recited in claim 1 further comprising a shank, said shank adapted for reception in the head or chuck of a drill.

8. A method of providing an access hole though a substrate comprising, engaging the surface of said substrate with a cylindrical hole saw, boring through said substrate with said hole saw, allowing rebate blade to comprising.

9. A method of accessing an interior space comprising the steps of using the assembly recited in claim to form an access opening in a surface of a substrate, said access opening having an annular through passage and an annular cavity around the exterior of said passage, accessing said interior space, and next inserting in a patch in said hole, said patch received and seated in said annular cavity.

10. An access and repair kit comprising the device recited in claim 1 and a plurality of patches, said patches having a radial dimension approximately the same as the distance from the center of the cylindrical hole saw to the cutting surface of said rebate blade that is the most distant from the cent of said hole saw center, and said patches having a uniform axial dimension approximately equal to the distance that said rebate blade extends in an axial dimension from said flange member.

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11. The tool assembly as recited in claim 1 wherein said rebate blades are detachable and replaceable from the hole saw component of the assembly.

12. The tool assembly as recited in claim 1 wherein said cylindrical hole saw is detachable and replaceable from said rebate blade component of the tool.

13. The tool assembly as recited in claim 4 wherein said pilot drill bit is detachable and replaceable from the rebate blade component of the tool.

14. A tool assembly comprising a first cutting means to cut a first annular groove into the surface of a substrate, and a second cutting means to cut an annular track adjacent to and outside said first groove, said first means being positioned at a leading edge of said assembly and second means located at a second axial position behind said first cutting means, means to allow for the rotation of said cutting means around a central axis, and stop means wherein said stop means engage said surface outside of said second track and said stop means allows for the predetermined limited movement in an axial direction of said assembly into said substrate.